

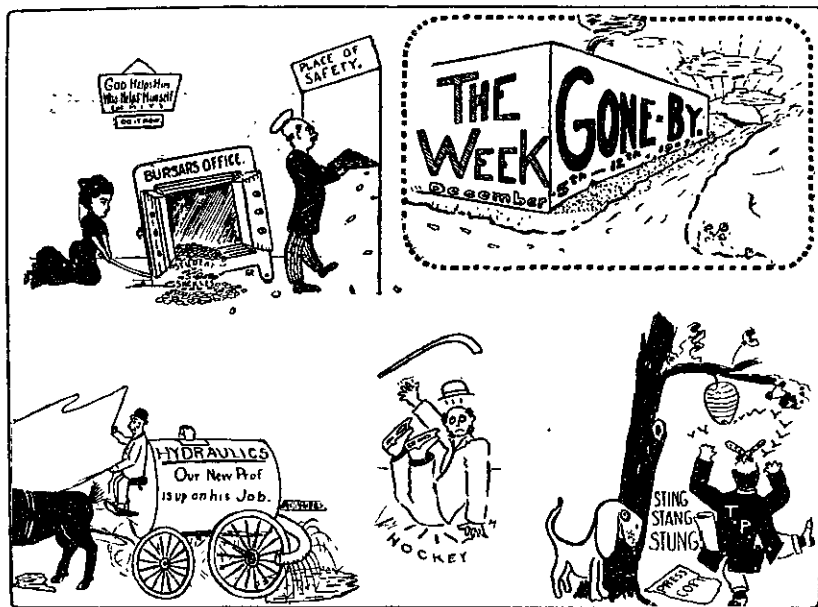
THE TECH

DAILY

VOL. XXIX. NO. 66.

BOSTON, MASS., WEDNESDAY, DECEMBER 15, 1909

PRICE ONE CENT



ANNUAL WINTER CONCERT OF MUSICAL CLUBS

**New Selections To Be Rendered
--Dance Will Be Second
Only To Prom**

The annual winter concert of the combined Glee, Mandolin, and Banjo clubs, will be held Friday evening of this week. The clubs gave an excellent program at the Wesleyan concert on November 26th and it is only to be expected that the winter concert will be even better than any of the preceding concerts.

Copley Hall in which the affair takes place, is on Clarendon St., near the Lowell Building. This hall, which is very large and well ventilated, will be handsomely decorated for the occasion.

All three of the clubs have a number of snappy selections which have not been rendered before. The Glee club especially, has two new songs which are very catchy.

After the concert, comes dancing until 2 A. M. and it is planned to make the dance rank second only to the Junior Prom. There will be approximately two hundred couples dancing. The order contains twenty dances and every one is a good number.

The music for the dance will be by A. F. Thode's orchestra, which is now practically the only one used by Institute organizations. It will be remembered by those who attended Class Day last spring, that this same orchestra rendered some fine selections on that occasion.

Tickets are going rapidly and it is requested that intending purchasers secure their tickets at once, for good seats are becoming scarce.

W. W. Warner, general manager and J. S. Martin, assistant general manager, are certainly doing their best to make this concert better than any previous one and with the aid of the student body they will be able to do so.

The easiest way to make sure of tickets is to get them now at the Union. The management has a representative there every day from twelve till two o'clock.

Tonight comes the third T. C. A. dinner. Mr. J. F. Chase, secretary of the Watch and Ward Society, will speak on "The White Slave Traffic." This talk will be followed by a short discussion pertaining to the relation of christian citizenship to political service.

IMPURITIES IN STEEL CAUSE MOST FRACTURES

**Professor Fay Speaks To C. E.
Society On The Failure Of
Steel Structures**

Just fifty men attended the meeting of the Civil Engineering Society, last evening. After a very good dinner in the Union dining room, the members adjourned to the upper rooms of the Union where Prof. Fay addressed the body.

Prof. Fay spoke on "Causes of Failure of Structural Materials," a subject along the line of which he has made very important investigation. He first gave a short sketch of the history of microscopic examination of steel. Steel, he said, is a combination of iron and carbon but in the process of manufacture, other elements, manganese, sulphur, silicon and phosphorus, get into it. Some of these give an increase of strength but unfortunately decrease the ductility of the finished product.

These impurities streak when the steel is rolled, thus making a weak point in the material. Under the microscope, the evidence of these streaks is brought out and thus the weakness may be avoided.

The engineer gives orders for structural steel having certain qualifications and, if in the manufacture, these specifications are not carried out, the steel will be liable to break. The microscope also brings to light whether the steel is composed of the materials desired or not.

At the close of his lecture, Prof. Fay showed some interesting slides illustrating these points.

CURRENT EVENTS

President Taft reached New Haven yesterday. A special meeting of the Yale corporation, of which President Taft is a fellow, was held in Woodbridge Hall.

King Leopold of Belgium was operated upon successfully yesterday. The operation was made in the nick of time, since the King's condition has been doubtful due to intestinal troubles.

A statue in heroic size of the late Prince Ito is to be erected in Seoul, largely through contributions from the poorer Koreans, who are thus showing their appreciation of their former resident general.

INSTITUTE STATISTICS AND FACTS REPORTED

**Five-Year Courses Gain Mem-
bers--Only Eight Women
Students At Tech**

At the recent meeting of the corporation, Registrar Walter Humphreys submitted a most entertaining report, giving statistics and facts of interest to all. In part, the report is as follows:—

The registration shows that the number of students is 1,479, a slight gain over last year. The total number of regular members of the instructing staff is 210. The ratio of the instructing staff to the student body is one to seven. Ten years ago this ratio was one to eight and eight-tenths.

Even though the number of students is greater this year, the numbers in the four classes are slightly smaller, except in the Sophomore class. For a number of years the classes have grown smaller as they replace the class above except where the first year class replaces the second year, but this year there is a gain instead of a loss. There is also a gain in the number of students above the fourth year. This year there are 31 resident fellows and other candidates for advanced degrees against 26 before.

Only eight women are at present in the Institute, two of whom are taking regular work.

The number of regular students relatively to the special students is larger; this year 69 per cent of the students are regular while only 65 per cent were in regular standing last year. A student is regular when he has a clear record in all of the subjects required up to the point of his connection with the Institute; a student may be special either because he has not fulfilled these requirements, or because he is simply taking a few subjects or less than full work.

In the three upper classes, 83 per cent are taking engineering courses, 7 per cent, scientific courses, and 10 per cent are in the architectural course. The first year class does not enter in this calculation because they have not elected their professional course yet. The per cent of those in the scientific courses has dropped slightly, and that in the architectural course has risen. There are gains in civil, mechanical and sanitary engineering, with a slight drop in mining and electrical engineering.

The number of college graduates is 200; Yale, Dartmouth, Harvard and the Naval Academy have the largest number of representatives out of the total 84 colleges having graduates here. There are also 183 new students from other colleges.

More students are registered in the regular five-year courses than ever before. Many are taking these courses so as to cover the work of two professional departments. The combinations of two courses are: civil and sanitary engineering, mechanical and electrical engineering, mechanical engineering and naval architecture, and electrical and chemical engineering.

The average age of the first year students at entrance is 19 years, a month less than the average age of the previous first year class. Excepting last year, the average age had not exceeded 18 years and 11 months for ten years.

The age of the graduating class was one month greater than last year. It was 23 years and one month, but the average age at graduation has been as high as 23 years and three months. The 233 graduates of last year raised the total number to 4,361. Half of this number have graduated within the last ten years, or since 1899.

(Continued on page 2.)

FRESHMAN DINNER TOMORROW NIGHT

**Dean Burton And Mr. Carb Have
Been Asked To Speak--Pipes
To Be Given Out**

To-morrow is the date set for the Freshman dinner. Next to Field Day, this stands first in importance in the list of events of the first year students at the Institute.

The dinner committee has done its best to provide a satisfactory menu and an interesting group of speakers, so as to make it the most successful affair of its kind, that has ever been held.

This dinner has probably caused more attention than any ever held before; due to the fact that it is the first one not held at the Union. The dinner committee give as the reason for not holding their dinner at the Union, that it is the consensus of opinion on the part of the majority of the 1913 students, that the meals at the Union have been altogether satisfactory.

This is the chief reason for the change, for the committee augured that the idea of the dinner in the first place was to stir up enthusiasm for the Institute, on the part of the members of the 1913 class. And, as this enthusiasm they seemed to feel, could not be raised by an evening at the Union, the dinner was arranged to take place in the Crawford House.

On each succeeding day of the past week the tickets have been selling better. The exact number that will be present is not yet accurately known but there is little doubt but that it will approach something very near one hundred and fifty. Tables have been specially reserved for the freshman football and track teams. The menu prepared by the steward of the Crawford House is one which is satisfactory to the committee in every detail and there is little question that a hotel which makes a practice of catering to large parties, will be able to serve a dinner, well cooked and palatable.

In the matter of the speakers the committee has been particularly fortunate. As has always been the custom, Dean Burton will be on hand to deliver one of his usual pleasing addresses. In securing Mr. Carb, the new instructor in freshman English, another good speech is assured. Mr. Carb graduated from Harvard last year and has already made himself very popular among the men who study under him. Two other men, who may possibly be present to say a few words, are Prof. Talbot and Mr. Rand, the Bursar. In addition some of the students themselves, who have been prominent in any of the activities so far this year, may be called upon to say a few words.

Another event that will create considerable interest is the presentation of the class pipes. These will be given out at the close of the dinner and then will be simultaneously lighted at a signal from the president.

CALENDAR.

Wednesday, December 15.
4:00 Basket-Ball Practice—Gym.
4:00 Gym Team Practice—Gym.
4:15 Institute Committee Meeting—Room A. Union.
5:00 Senior Portfolio Nominations Close.
6:30 T. C. A. Dinner—Union.
6:30 Penn. Club Dinner—Union.
8:00 Chemical Society Meeting—Union.
8:00 British Empire Assoc. Meets—Harvard Canadian Clubhouse.
Thursday, December 16.
4:30 Physical Society Meeting—20 W.
7:00 1913 Dinner—Crawford House.
7:30 Mining Eng. Society Meeting—Union.

THE TECH.

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BOSTON, MASS., DECEMBER 15, 1909.

The Tech takes great pleasure in announcing the appointment of R. H. Fox 1912, to the circulation staff.

Coach Kanaly's hope for the winning of the New England Intercollegiate meet next June will be carried out to a certainty, if every man who can run, hop, skip or jump, will go up to the gym three afternoons a week, put himself under Kanaly's care, and follow directions.

Remember, the last time Technology won an intercollegiate meet was in 1894. The next time we win a meet is to be in 1910 and it is dependant on YOU to be one of those to help towards this victory.

Everybody out TO-DAY, not to-morrow.

REGISTRAR'S REPORT

(Continued from page 1.)

Every state except North Carolina, Idaho, Nevada and Oklahoma are represented. The number of foreign students is within one of the greatest number of foreign students we have ever had. Thirty countries are represented by these students, and China with its 11 and Mexico with its 10 send more than any other two countries. Alberta, Bulgaria, New Zealand and Switzerland send students this year, and are countries that have not been represented for the past seven years.

Massachusetts has 852 men this year, making 57.5 per cent of the total number of students. Boston and the cities or towns bordering the city send 51 per cent of the students of this state, but this amounts to less than 30 per cent of the total student body.

The amount of scholarship assistance given during the school year of 1908-9 was \$22,687.50. The total number of undergraduate students assisted from Institute funds was 199. In addition to this, the State aided 47 more, making a total of 246 students receiving scholarship assistance.

"THE DOPESTER"

Technology's basket ball schedule starts somewhat late this year but that allows us all the more time for practice. Here's to a champion "five."

Up to the Gym.

Frank Kanaly's list of names in yesterday's Tech shows us that there are enough men in the Institute to form a great track team. Why don't they show up?

The B. A. A. track on the Irvington St. oval is all ready for practice. Pretty good track too.

1913 started their basket ball season well. Let them continue.

Hurrah! for hockey.

Walter Camp's All-American team is not exactly what was expected but we hope that he will decide to pick just eleven men in place of the forty-five "roll-of-honor" men.

All out for "Indoor."

"LLOYD-GEORGE" BUDGET

British Empire Association Invited To Hear Address

This evening at eight o'clock, Prof. Porritt, who has been giving a course of lectures at Harvard, will address the Harvard Canadian club on "The Lloyd-George Budget." President Bigelow of the Canadian club has kindly invited the members of the Technology British Empire Association to be present at this talk. The lecturer is a man thoroughly familiar with his subject, so that this is a splendid opportunity for Britishers at Tech to hear about a matter of great current importance to the British nation.

The Canadian club-house which is at 12 Oxford Street is located near Harvard Square and members going to the lecture had best go to the Square and then inquire for the street.

SALARIES IN NEW YORK

The chief engineer of the Water board in New York city is paid a larger salary than the mayor of that city. Men engaged in municipal departments doing civil engineering work are paid salaries ranging from \$15,000 to the chief engineer, to \$900 for chainmen.

The pay of men in this line of work is as follows:—Chief engineers, \$5,000 to \$15,000; consulting engineers, \$6,000 to \$12,000; division engineers, \$1,900 to \$5,000; assistant engineers, \$1,200 to \$5,000; inspectors, \$1,200 to \$3,600; transitmen, \$1,500 to \$1,900; computers, \$1,800 to \$2,000; draftsmen, \$1,200 to \$2,700; levelers, \$1,200 to \$1,500; rodmen, \$900 to \$1,500; chainmen, \$900 to \$1,200. The amount of salaries depends in each of the above cases on the length of time and the grade of work performed in the service.

LOST.

At Gym Tuesday, Dec. 7, stick pin, bearing initials, R. G. D. Will finder please leave at Cage for
R. G. DAGGETT.

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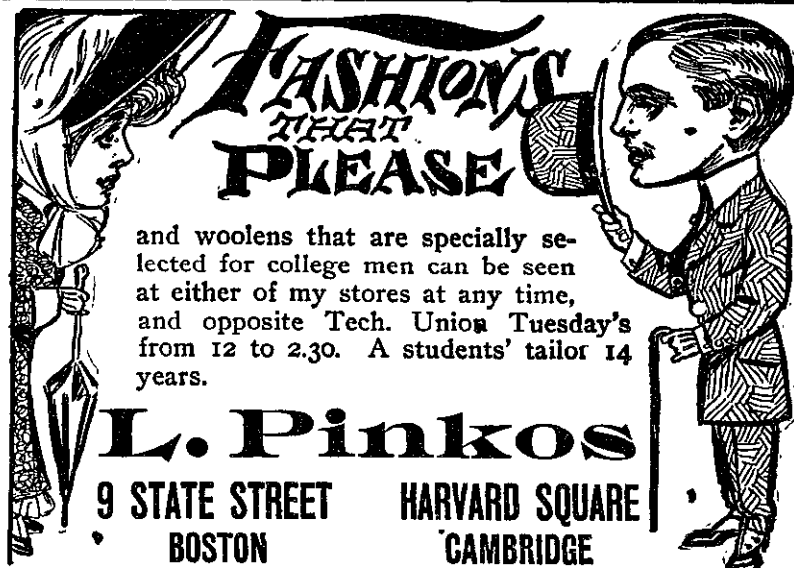
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CHEMICAL SOCIETY

Dr. A. A. Noyes Will Be Speaker --Experiments To Be Shown

Dr. A. A. Noyes, one of the most interesting speakers of the Institute, will address the members of the Chemical Society to-night at the Union, on the subject, "The Use of Indicators in Volumetric Analysis," illustrating his talk by experiments. All those interested in chemistry are invited to attend.

The meeting will be held on the lower floor of the Union, and will be called at 8 P. M. sharp. The business on hand will be the consideration of amending the constitution of the society, so as to allow the Sophomores to vote. According to the constitution of the society the officers are elected at the end of the school year. Seniors and Juniors are eligible to hold office, but if the proposed amendment is passed the Sophomores will be eligible for offices.

A large attendance is expected. Refreshments will be served at the close of the meeting.

LOST.

Will the person who took the overcoat from locker No. 275 in the Mechanical Lab., Friday afternoon, please leave the same at the cage for
E. R. H. '11.

Lost, 1912 class pipe. Finder please return to Box 114 Cage. \$2 reward.
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GENERAL NOTICES.

FIRST YEAR.

Conference hours for students who wish to confer with Heads of Departments in regard to the Choice of Course.

COURSE I—Prof. Spofford will meet students on Tuesday, Dec. 21st, from 1 to 1:30 in 42 Eng. A.

COURSE II—Prof. Lanza will meet students on Thursday, Dec. 16th, from 1 to 1:30 in 11 Eng. B.

COURSE III—Prof. Richards will meet students on Friday, Dec. 17th, at one o'clock in 2 Rogers.

COURSE IV—Prof. Chandler will meet students Thursday and Friday, Dec. 16th and 17th, at 4 P. M. in 42 Pierce.

COURSE V—Prof. Talbot will meet students on Wednesday, Dec. 15th, at 1 P. M. in 6 Lowell.

COURSE VI—Prof. Jackson will meet students on Monday, Dec. 20th, at 1 P. M. in 6 Lowell.

COURSE VII—Prof. Sedgwick will meet students Tuesday, Dec. 14th, at 4 P. M.; Wednesday, Thursday, and Saturday, Dec. 15th, 16th and 18th at 12 o'clock, in 27 Pierce.

COURSE VIII—Prof. Cross will meet students any day but Saturday at 12:05 in 11 Walker.

COURSE IX—Prof. Talbot will meet students (see Course V).

COURSE XI—Prof. Porter will meet students on Wednesday, Dec. 22nd, from 1 to 2 in 46 Eng. A.

COURSE XIII—Prof. Peabody will meet students Tuesday and Thursday, Dec. 14th and 16th, from 2 to 4 in 31 Eng. C.

COURSE XIV—Prof. Goodwin will meet students Tuesday and Wednesday, Dec. 14th and 15th, from 1 to 2 in 2 Walker.

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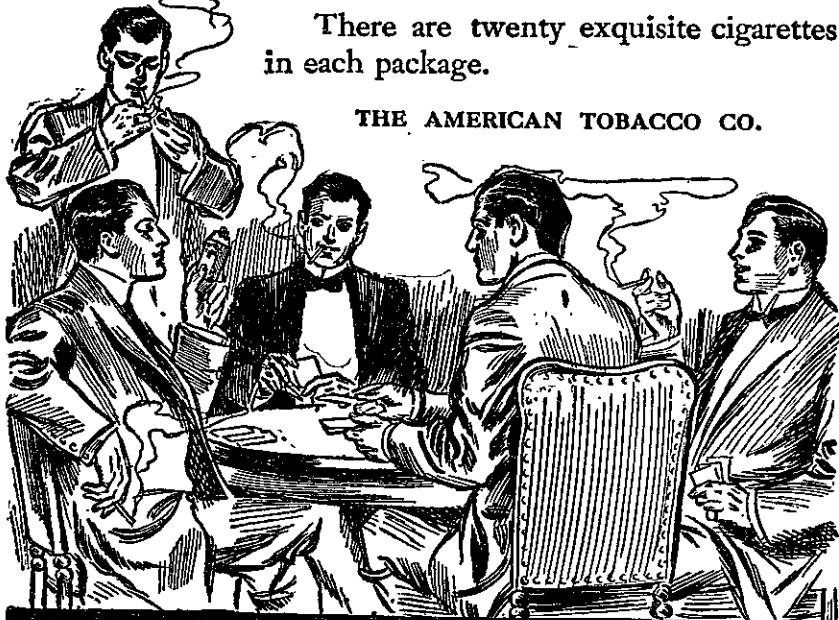


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ELECTRICAL ENGINEERING.
There will be a final examination in Electrical Engineering (693) on Saturday afternoon, December 18th, from 2 to 4, in Room 20, Engineering Building A.
WALTER HUMPHREYS,
Registrar.

1910 nominations for the Senior Portfolio Committee, will be received until 5 P. M., Wednesday, Dec. 15, 1909. All nomination must be signed by ten members of the class and left at cage.

1910. Only those Seniors who have paid their class dues up-to-date, will be allowed to vote. Names of those who have not paid will be posted up in the Union. Dues may be paid to W. O'Hearn, I and XI; L. O. French II; R. Goodwin, III; H. S. Clevedon, IV; E. M. Potter, VI; D. Clapp, X; M. P. Anderson, XIII and Luther Davis, XIV.

PHYSICAL SOCIETY.
The next meeting of the Society will be held in Room 20, Walker, on Thursday, December 16, at 4.30.
Dr. K. G. Falk will speak on "The Change in Refractive Index with Temperature."
D. F. COMSTOCK.

The next meeting of the Chemical Society will be held at 8 P. M., Dec. 15th, on the lower floor of the Union.
Dr. A. A. Noyes will speak on "The Use of Indicators in Volumetric Analysis," and will illustrate his talk by experiments.

COURSE III MEN.
Next meeting of the Mining Engineering Society Thursday, Dec. 16, at 7.30 P. M. in the Union. Mr. Stanley C. Sears, III '01, who has been in Mexico for six years, will speak.

Football team meet at Marceau, the photographer, 160 Tremont St., at 3.20 P. M. Wednesday, Dec. 15th. Bring football togs.

WINTER CONCERT.
Seats may be reserved until Thursday, Dec. 16. All seats not paid for at that time will be open or general sale.
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